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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/519,505	12/27/2004	Bjorn Andersen Nexo	NEXO1 7629			
	7590 04/09/2007 D NEIMARK, P.L.L.C.	EXAM	EXAMINER			
624 NINTH ST		KAPUSHOC, STEPHEN THOMAS				
SUITE 300 WASHINGTO	N, DC 20001-5303		ART UNIT	PAPER NUMBER		
	,		1634			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE		
31 D	DAYS	04/09/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application	plication No. Applicant(s)					
Office Action Summary		10/519,505		NEXO ET AL.				
		Examiner		Art Unit				
		Stephen Kap		1634				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)[]	Responsive to communication(s) filed on							
• —	This action is <b>FINAL</b> . 2b) This action is non-final.							
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
-	Claim(s) 1-10,15-30,32-35 and 37 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·	5) Claim(s) is/are allowed.							
-	Claim(s) is/are rejected.							
·	Claim(s) is/are objected to.	inat ta restriction s	and/or alastian resul	inam out				
0)[2]	Claim(s) <u>1-10,15-30,32-35 and 37</u> are subj	ect to restriction a	ind/or election requi	irement.				
Applicati	on Papers							
9) 🔲 🤈	The specification is objected to by the Exan	niner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> </ul>								
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)		Paper No(s)/Mail Da  Notice of Informal P					
Pape	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		Other:	акон гурноацон				

Application/Control Number: 10/519,505

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#### **DETAILED ACTION**

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-4 in part as they require the analysis of nucleic acids, and claims 5-10 and 15-24, drawn to nucleic acid based methods for estimating cancer risk of an individual comprising assessing a polymorphism in SEQ ID NO: 2.

Group 2, claim(s) 1-4 in part as they require the analysis of translation products, and claim 25, drawn to protein based methods for estimating cancer risk of an individual comprising assessing a polymorphism in a translation product from SEQ ID NO: 2.

Group 3, claim(s) 26 and 27 in part as they require the analysis of nucleic acids, drawn to nucleic acid based methods for estimating the disease prognosis of an individual comprising assessing a polymorphism in SEQ ID NO: 2.

Group 4, claim(s) 26 and 27 in part as they require the analysis of translation products, drawn to protein based methods for estimating the disease prognosis of an individual comprising assessing a polymorphism in a translation product from SEQ ID NO: 2.

Group 5, claim(s) 28 and 29 in part as they require the analysis of nucleic acids, drawn to nucleic acid based methods for estimating the disease prognosis of an individual comprising assessing a polymorphism in SEQ ID NO: 1.

Group 6, claim(s) 28 and 29 in part as they require the analysis of translation products, drawn to protein based methods for estimating the disease prognosis of an individual comprising assessing a polymorphism in a translation product from SEQ ID NO: 1.

Group 7, claim(s) 30, 32-35, and 37, drawn to nucleic acids.

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## **Further Lack of Unity Restriction Requirement**

If Applicants elect the invention of Group 1, Applicants shall further select a single particular subsequence from the subsequences listed as parts 1-38 of claim 18. Claims 18-20 will only be examined in so far as they require the selected particular subsequence.

If Applicants elect the invention of Group 7, Applicants shall further select a single particular primer or probe sequence from the group consisting of SEQ ID NOs: 7-21, as recited in claim 30. Claim 30, and claims dependent upon claim 30, will only be examined in so far as they require the selected particular sequence.

### Claim notes

Applicants may wish to address the following issues in response to the Requirement for Restriction.

It is noted that as written, claim 18 depends from claim 11, where claim 11 is a cancelled claim.

It is noted that claim 34 is drawn to a 'primer or probe according to claim 26', where claim 26 is a method claim that does not recite or require any primer or probe.

The inventions listed as Groups 1-7 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The common technical feature among Groups 1-7 is a sequence polymorphism in the sequence of SEQ ID NO: 1 or 2. However, such a technical feature is not a special technical feature as it is anticipated by the prior art of GenBank GI:308484 (1993). GenBank GI:308484 teaches a locus that is a polymorphic microsatellite in the portion of chromosome 19 comprising SEQ ID NO: 1 and 2. The reference teaches

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two primers, Primers A and Primer B. Primer A is identical to positions 25717-25699 and 26993-26975 of SEQ ID NO: 1 and 2, respectively; and Primer B is identical to positions 25426-25444 and 25802-25820 of SEQ ID NO: 1 and 2. Additionally, Primers A and B are identical to SEQ ID NO: 20 and 21 as recited in independent claim 30 or Group 7.

With regard to the Further Lack of Unity requiring restriction to a particular subsequence (Group 1) or primer/probe sequence (Group 7), the different particular sequences lack unity because they are different nucleotide sequences that are in fact different chemical structures and are thus not linked by a common structure.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Kapushoc whose telephone number is 571-272-3312. The examiner can normally be reached on Monday through Friday, from 8am until 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached at 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days.

Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Stephen Kapushoc Art Unit 1634

> JULIET C. SWITZER PRIMARY EXAMINER